

Table 3-2:
Summary of Pollutant Parameter Sampling and Analytical Methods

Parameter	Container	Primary, Secondary, or Tertiary	Minimum Sample Size (ml)	Sample Method	Preservation	Holding Time	Reporting Limit and Units	EPA/SM Method	To Be Performed By
Particulate Matter:									
Turbidity	poly	P	*	A, F	cool, 4° C	48 hr.	1 NTU	EPA 180.1	Anal. Lab
Total Suspended Solids (TSS)	poly	P	*	A	cool, 4° C	7 days	5 mg/l	EPA 160.2	Anal. Lab
Total Solids (TS)	poly	P	*	A	cool, 4° C	7 days	10 mg/l	EPA 160.3	Anal. Lab
Volatile Suspended Solids (VSS)	poly	P	*	A		?	10 mg/l	EPA 160.4	Anal. Lab
Settleable Solids	poly	P	*	A	cool, 4° C	2 days	0.1 ml/l	EPA 160.5	Anal. Lab
Settling Velocity	poly	--	12l	G	cool, 4° C	7 days	--	TBD	UW
Particle Size Distribution (PSD)	poly	--	12l	G	cool, 4° C	7 days	--	TBD	UW
Trash and Debris	--	--	--	--		--	--	TBD	UW
General Parameters:									
pH	poly	P	*	A	cool, 4° C	24 hrs.	--	EPA 150.1	Anal. Lab
Chloride	poly	P	*	A	cool, 4° C	28 days	0.4 mg/l	EPA 300.0	Anal. Lab
Hardness	poly (Ca and Mg samples used)	P	to be determined by Ca and Mg ICP	A	see Ca and Mg	--	1.00 mg eq. CaCO ₃ /l	SM 2340B	Anal. Lab
Calcium, Ca	poly	P	*	A	HNO ₃ to pH<2	6 months	0.250 mg/l	EPA 200.7	Anal. Lab
Temperature	--	--	--	--	--	--	--	--	--
Organic Material:									
oil and grease	glass	--	1,500 ml (includes MS/MSD QA)	G	HCl to pH <2, cool, 4° C	28 days	5 mg/l	EPA 1664	Anal. Lab
Total Petroleum Hydrocarbons (TPH)	glass	--	1,500 ml (includes MS/MSD QA)	G	HCl to pH <2, cool, 4° C	28 days	5 mg/l	EPA 1664	Anal. Lab
Total Chemical Oxygen Demand (COD)	poly	T	*	A	H ₂ SO ₄ to pH<2, cool, 4° C	28 days	10 mg/l	EPA 410.4	Anal. Lab
Total Organic Carbon (TOC)	poly	T	*	A	H ₂ SO ₄ to pH <2 cool, 4° C, store in dark	28 days	1.0 mg/l	EPA 415.1	Anal. Lab

Parameter	Container	Primary, Secondary, or Tertiary	Minimum Sample Size (ml)	Sample Method	Preservation	Holding Time	Reporting Limit and Units	EPA/SM Method	To Be Performed By
Metals:									
Total cadmium (Cd)	poly	P	*	A	HNO ₃ to pH <2, cool, 4°C	6 months	1 µg/ℓ	EPA 200.8	Anal. Lab
Soluble cadmium (Cd)	poly	P	*	A	filter, HNO ₃ to pH <2, cool 4° C	6 months	1 µg/ℓ	EPA 200.8	Anal. Lab
Total copper (Cu)	poly	P	*	A	HNO ₃ to pH <2, cool, 4°C	6 months	1 µg/ℓ	EPA 200.8	Anal. Lab
Soluble copper (Cu)	poly	P	*	A	filter, HNO ₃ to pH <2, cool 4° C	6 months	1 µg/ℓ	EPA 200.8	Anal. Lab
Total lead (Pb)	poly	P	*	A	HNO ₃ to pH <2, cool, 4°C	6 months	1 µg/ℓ	EPA 200.8	Anal. Lab
Soluble lead (Pb)	poly	P	*	A	filter, HNO ₃ to pH <2, cool 4° C	6 months	1 µg/ℓ	EPA 200.8	Anal. Lab
Total zinc (Zn)	poly	P	*	A	HNO ₃ to pH <2, cool, 4°C	6 months	10 µg/ℓ	EPA 200.8	Anal. Lab
Soluble zinc (Zn)	poly	P	*	A	filter, HNO ₃ to pH <2, cool 4° C	6 months	10 µg/ℓ	EPA 200.8	Anal. Lab
Magnesium (Mg)	poly	P	*	A	HNO ₃ to pH <2, cool, 4°C	6 months	500 µg/ℓ	EPA 200.7	Anal. Lab
Nutrients:									
Total Kjeldahl Nitrogen (TKN)	poly	S	*	A	H ₂ SO ₄ to pH <2 cool, 4°C	28 days	1 mg/ℓ as N	EPA 351.3	Anal. Lab
Nitrate /nitrite (NOx)	poly	S	*	A	H ₂ SO ₄ to pH <2, cool, 4°C	28 days	10 mg/ℓ as N	EPA 353.2	Anal. Lab
Total phosphorus (TP)	poly	S	*	A	H ₂ SO ₄ to pH <2, cool, 4°C	28 days	5 µg/ℓ	EPA 365.2	Anal. Lab
Soluble phosphorus (SP)	poly	S	*	A	Filter, cool, 4° C	48 hr	2 µg/ℓ	EPA 365.2	Anal. Lab

Notes:

A = Automated discrete or manually composited sample.

G = Manual grab sample.

F = Field Measurement

* = Sample Volume Requirements. Primary parameters require 1,650 ml. Secondary parameters require 400 ml. Territory parameters require 100ml.